

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application. Please amend the claims, as follows:

1. (Currently Amended) A device for monitoring the electromagnetic field emitted by an antenna, the device comprising: a transmission apparatus through an antenna (2), characterized in that it comprises:

[[-]] a measurement arrangement (7, 8a, 8b, 10a, 10b, 11, 12, 13 to 17)) adapted to be associated to said transmission apparatus (4) or said antenna (2) for measuring at least one RF power signal emitted by said apparatus and fed input to the antenna in at least one frequency band, (TX1, TX2, TX3... , TXn) to the antenna (2), wherein said at least one RF power signal is indicative of the electromagnetic field strength emitted by the antenna over a given area, and

[[-]] a communication module device (18) for transmitting said at least one RF power signal to a processing facility, (20).

2. (Currently Amended) The device of claim 1, ~~characterized in that~~ wherein said measuring measurement arrangement comprises a sampling circuit (17) sensitive responsive to the at least one RF power signal fed input to the antenna, the sampling circuit (2) ~~for~~ generating a sequence of samples indicative of the electromagnetic field strength over a given time interval.

3. (Currently Amended) The device of claim 1, ~~characterized in that~~ wherein said ~~measuring measurement~~ arrangement comprises an average calculating circuit (16) to generate signals indicative of the average electromagnetic field strength over a given time interval.

4. (Currently Amended) The device of claim 2, ~~characterized in that~~ wherein:

[[1]] said sampling circuit (17) generates a first set of samples indicative of the electromagnetic field strength over a given time interval,

[[1]] said ~~measuring measurement~~ arrangement comprises an average calculating circuit (16) to generate a signal indicative of the average electromagnetic field strength over a given time interval, and

[[1]] said average calculating circuit (16) is configured for averaging sub sets of said first set of samples so as to generate a second set of averaged samples, said second set of averaged samples comprising a number of samples that is smaller than the number of samples comprised in said first set of samples.

5. (Currently Amended) The device of claim 1, ~~characterized in that it~~ wherein the device further comprises a memory (16) for storing data representative of said at least one RF power signal, ~~in view of transmitting (18) said RF power signal from the device~~ (5).

6. (Currently Amended) The device of claim 4, ~~characterized in that it~~ wherein the device further comprises a memory (16) for storing data representative of said at least

one RF power signal ~~in view of transmitting (18) said signal from the device (5),~~ said memory ~~(16)~~ being arranged to store at least said second set of samples.

7. (Currently Amended) The device of claim 1, ~~characterized in that~~ wherein said measuring measurement arrangement comprises a plurality of measuring channels, ~~(11, 12), each measuring channel being adapted for measuring RF power signals fed-~~ input to said antenna ~~(2)~~ in a respective frequency band.

8. (Currently Amended) The device of claim 7, ~~characterized in that it~~ wherein the device further comprises at least one switch ~~(13)~~ for selectively feeding towards said transmitter communication module ~~(18)~~ the output signal of any of said measuring channels, ~~(11, 12), whereby RF power signals respectively indicative of electromagnetic field strengths emitted by said antenna (2) for each of said frequency bands are adapted to be transmitted from the device, (5).~~

9. (Currently Amended) The device of ~~claims 1 to 8, characterised by~~ claim 1 further comprising a control module ~~(16)~~ for controlling the at least one RF power signal ~~fed-~~ input to the antenna, ~~(2).~~

10. (Currently Amended) The device of ~~claims 1 to 8, characterised in that~~ claim 1, wherein the communication device module ~~(18)~~ is able capable of receiving commands for controlling the at least one RF power signal ~~fed-~~ input to the antenna, ~~(2).~~

11. (Currently Amended) ~~Transmission~~ A transmission apparatus comprising a device for monitoring an electromagnetic field emitted by an antenna, the transmission apparatus emitting at least one RF power signal to the antenna, the device comprising:

a measurement arrangement for measuring the at least one RF power signal input to the antenna in at least one frequency band, wherein said at least one RF power signal is indicative of the electromagnetic field strength emitted by the antenna over a given area, and

a communication module for transmitting said at least one RF power signal to a processing facility. ~~as claimed in claims 1 to 10.~~

12. (Currently Amended) ~~Antenna~~ An antenna comprising a device for monitoring an electromagnetic field emitted by the antenna, the device comprising:

a measurement arrangement for measuring at least one RF power signal input to the antenna in at least one frequency band, wherein said at least one RF power signal is indicative of the electromagnetic field strength emitted by the antenna over a given area, and

a communication module for transmitting said at least one RF power signal to a processing facility. ~~as claimed in claims 1 to 10.~~

13-26 (Canceled)